



Laser Marking System

# Videojet® 3140

Increase throughput and productivity with the Videojet 3140 laser marking system, engineered to mark high-quality codes at moderate speeds.

The Videojet 10-Watt 3140 CO<sub>2</sub> laser marking system offers all of the performance features found in higher wattage Videojet lasers, but with a power source better matched for moderate line speed applications.

With print speeds up to 2000 characters/sec. and line speeds up to 900m/min., the 3140 laser solution is ideal for both simple and complex codes across a range of substrates including paperboard, glass, painted metal, paper labels, PET and other plastic materials.



## Uptime Advantage

- Maximum performance and extended laser source life expectancy up to 45,000 hours through optimized total power output
- Air-cooled laser source virtually eliminates maintenance intervals
- Line set up wizard, available with optional CLARiTY™ Laser Controller, aids fast product changeovers, eliminating set up trial and error and minimizing planned downtime

## Built-in productivity

- Largest marking window in the industry offers optimally matched applications for higher throughput
- On-screen diagnostics, available with optional CLARiTY™ Laser Controller, track causes of downtime and help troubleshooting to get the line back up and running quickly

## Code Assurance

- Optional CLARiTY™ Laser Controller offers built-in software features that help reduce operator errors and ensure products are coded correctly
- High-quality, permanent codes help assure product traceability and tamper-proofing
- High-resolution marking head delivers consistent, crisp codes

## Simple usability

- Most flexible integration solution with 32 standard beam delivery options
- Quick set up and easy redeployment via detachable umbilical cable for easy routing on the line and simple-to-use accessory connections
- 5 interface options plus a choice of networking communications to match your preferred workflow

# Videojet® 3140

## Laser Marking System

### Marking speed

Up to 2,000 characters/sec.<sup>(1)</sup>

### Line speed

Up to 15 m/sec. (49ft./sec.)<sup>(1)</sup>

### Marking window

Approx. 30.8x38.2mm<sup>2</sup> to 350.8x294.7mm<sup>2</sup>

### Wavelengths

10.6µm and 9.3µm

### Marking formats

Standard industrial fonts (Type 1 Windows® TrueType®) and Single line fonts  
Machine readable codes (OCR, 2D-matrix, etc.)  
Bar codes: BC25, BC25i, BC39, BC128, GS1-128, EAN13, UPC\_A, RSS14, RSS14 Truncated, RSS14 Stacked, RSS14 Stacked Omnidirectional, RSS Limited, RSS Expanded, etc.  
Graphics, logos, symbols, etc.  
Linear, circular, angular, reverse, rotate  
Sequential and batch numbering  
Automatic date, layer and time coding; real-time clock  
Dot mode enables marking 2D codes faster than traditional grid mode

### Laser tube

Sealed CO<sub>2</sub> laser, power class 10-Watt

### Beam deflection

Steered beam with digital high-speed galvanometer scanners

### Focusing

Focal lengths: 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches);  
63.5/ 85/ 100/ 150/ 200/ 300/ 351/ 400 mm (2.50/ 3.35/ 3.94/ 5.9/ 7.87/ 11.8/ 13.8/ 15.75 inches)

### Multiple operator interface options

Handheld controller  
PC software  
TCS Touch Control Software  
CLARiTY™ Laser Controller  
Smart Graph Com

### Language capabilities<sup>(2)</sup>

Arabic, Bulgarian, Czech, Danish, English, German, Greek, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovak, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese; interface dependent. Additional languages available with Smart Graph software.

<sup>(1)</sup> Maximum marking and line speed is application dependent

<sup>(2)</sup> With optional CLARiTY™ Laser Controller

#### INVISIBLE LASER RADIATION

AVOID EYE OR SKIN EXPOSURE  
TO DIRECT OR SCATTERED RADIATION

MAX. AVERAGE POWER: 15 W  
WAVELENGTH: λ = 9-11 nm  
LASER CLASS 4  
(EN 60825-1:2014)

### Communication

Ethernet, TCP/IP and RS232 optional  
Inputs for encoders and product detector triggers  
16 inputs / 11 outputs for start/stop signals, machine/operator interlocks, alarm outputs; in addition to the safety circuits  
Customer-specific solution available

### Integration

Direct integration into complex production lines via scripting interface  
Flexible beam delivery options (beam extension unit/ beam turning unit)  
Detachable umbilical for simple integration; available in 3 lengths

### Electrical requirements

100-240 VAC (autorange), ~50/60Hz, 1PH, 0.40KW

### Cooling system

Air cooled

### Environment

Temperature 40-105° F (5-40° C)  
Humidity 10%-90%, non-condensing

### Sealing and safety standards

Supply unit: standard IP54, optional IP65  
Marking Unit: IP54, optional IP65  
Optional safety module provides Performance Level d (PFL-d) in accordance to EN 13849-1  
IEC/EN 60825-1:2014

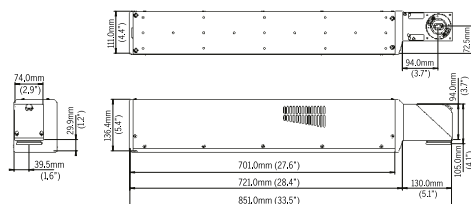
### Approximate weight

Supply unit: IP54/IP65 25.4lbs. (11.5kg)  
Marking unit: IP54 28.7lbs. (13kg); IP65 30.9lbs. (14kg)

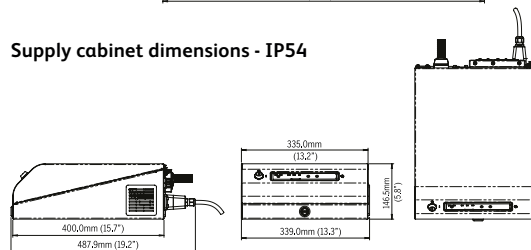
### Applicable certifications

CE, TÜV/NRTL, FCC  
Compliance (no certification required): ROHS, CDRH/FDA

### Marking unit dimensions - IP54 with SHC60c marking head



### Supply cabinet dimensions - IP54



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